I CLAIM:

1. A method of decoding an auxiliary code embedded in an audio signal, the method comprising:

performing statistical decoding of a multibit auxiliary code embedded in an audio signal, where the auxiliary code has been repetitively embedded in the audio signal;

decoding code values of the auxiliary code from two or more different portions of the audio signal, each having the multibit auxiliary code;

using the code values decoded from the two or more different portions of the audio signal to determine statistically the code values of the auxiliary code.

2. The method of claim 1 wherein bit values for code bits are decoded from each portion, and values decoded for the same code bits from different portions are used to statistically derive a bit value for each of the code bits.

3. The method of claim 1 wherein a statistical feature of the audio signal is analyzed to decode the code values of the auxiliary code.

4. The method of claim 3 wherein the statistical feature of the audio signal comprises entropy.

5. The method of claim 3 wherein the statistical feature of the audio signal comprises power.

6. The method of claim 1 wherein the auxiliary code is embedded in a digitized form of the audio signal by changing sample values of the digitized audio signal in the time domain.

7. The method of claim 6 wherein signal scaling with which the auxiliary code is embedded in the audio signal varies depending on sample values of the digitized audio signal.

8. The method of claim 1 wherein the auxiliary code is recoverable from a portion of the audio signal, and confidence with which the auxiliary code is accurately recovered increases with the number of different audio portions from which the auxiliary code is decoded.

9. The method of claim 1 wherein the auxiliary code comprises a code that enables or disables recording capabilities.

10. The method of claim 1 wherein the auxiliary code comprises a copyright identification code.

11. The method of claim 1 wherein the auxiliary code comprises a code used to monitor a broadcast of the audio signal.

12. The method of claim 1 wherein the auxiliary code comprises a code that triggers transmission of information about the audio signal from a decoding device to a service provider.

13. The method of claim 1 wherein the auxiliary code is used to generate a report about use of the audio signal.

14. A computer readable medium on which is stored software for performing the method of claim 1.

15. A method of decoding an auxiliary code embedded in an audio signal, the method comprising:

receiving an audio signal suspected of being embedded with an auxiliary code;

evaluating a statistical feature of a portion of the audio signal to decode code values of the auxiliary code from the audio signal; and

determining a code value in the auxiliary code based on the statistical feature.

16. The method of claim 15 wherein the statistical feature comprises power of the audio signal.

17. The method of claim 15 wherein the statistical feature is analyzed over different portions of the audio signal to decode two or more values of the auxiliary code.

18. The method of claim 17 wherein each of the two or more code values are decoded from corresponding time domain portion of the audio signal, and the statistical feature for each code value is evaluated over the corresponding time domain portion.

19. The method of claim 15 wherein the auxiliary code signal is repeated in different time domain portions of the audio signal.

20. The method of claim 19 wherein results of analyzing the statistical feature over the time domain portions in which the auxiliary code signal is repeated are used to recover the auxiliary code.

21. The method of claim 15 wherein the auxiliary code comprises a code that enables or disables recording capabilities.

22. The method of claim 15 wherein the auxiliary code comprises a copyright identification code.

23. The method of claim 15 wherein the auxiliary code comprises a code used to monitor a broadcast of the audio signal.

24. The method of claim 15 wherein the auxiliary code comprises a code that triggers transmission of information about the audio signal from a decoding device to a service provider.

25. The method of claim 15 wherein the auxiliary code is used to generate a report about use of the audio signal.

26. A computer readable medium on which is stored software for performing the method of claim 15.

add a2